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OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314			TRUONG, DENNIS	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/573,418	Applicant(s) IWATSU ET AL.	
	Examiner DENNIS TRUONG	Art Unit 2169	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 April 2011.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7,9-16 and 19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7,9-16 and 19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 March 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. In view of the Pre-Appeal Brief filed on (04/18/2011), PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below. If an appellant wishes to reinstate an appeal after prosecution is reopened, appellant must file a new notice of appeal in compliance with 37 CFR 41.31 and a complete new appeal brief in compliance with 37 CFR 41.37. Any previously paid appeal fees set forth in 37 CFR 41.20 for filing a notice of appeal, filing an appeal brief, and requesting an oral hearing (if applicable) will be applied to the new appeal on the same application as long as a final Board decision has not been made on the prior appeal. If, however, the appeal fees have increased since they were previously paid, then appellant must pay the difference between the current fee(s) and the amount previously paid. Appellant must file a complete new appeal brief in compliance with the format and content requirements of 37 CFR 41.37(c) within two months from the date of filing the new notice of appeal. See MPEP § 1205.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 1 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear whether the claim elements “means for receiving”, “control means for registering in said storing means” invokes 35 U.S.C. 112, sixth paragraph, because the phrases are modified by sufficient structure, material, or acts for performing the claimed function. If applicant wishes to have the claim limitation treated under 35 U.S.C. 112, sixth paragraph, applicant may:

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(a) Amend the claim to include the phrase “means for” or “step for”. The phrase “means for” or “step for” must be modified by functional language, and the phrase or term must **not** be modified by sufficient structure, material, or acts for performing the claimed function; or

(b) Present a sufficient showing that the claim limitation is written as a function to be performed and the claim does **not** recite sufficient structure, material, or acts for performing the claimed function to preclude application of 35 U.S.C. 112, sixth paragraph. For more information, see MPEP § 2181.

4. Claims 1, 12, 13, 15 recites the limitation "removing all files from said storing means except for files of the vendor" at the bottom of the claims. There is insufficient antecedent basis for this limitation in the claims because the claim recites that the storing means stores content from a vendor therefor only contains content from the vendor and would not contain files that are not from the vendor where removing all files from said storing means except for files of the vendor would apply.

Regarding 35 USC 101

5. Claim 13 is directed to “computer-readable medium.” Examiner interprets this limitation to comply with statutory category under 35 USC 101 where applicant intends the medium to be a physical article or object that is a machine or manufacture, provided by evidence shown in page 20 of instant specification, “a magnetic storage device, optical disc, magnetic optical storage medium, semiconductor memory or the like.” Examiner further interprets "computer-readable medium" to be drawn to storage medium and not to any form of energy, waves, or any form of propagation or the like, which does not comply with any of the four categories of invention. Examiner suggests the limitation is amended to recite, “computer-readable medium that store

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computer executable instructions...” to positively disclose the computer-readable medium as a tangible storage medium as described above.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1- 5, 9-14, and 19 rejected under 35 U.S.C. 103(a) as being unpatentable over **Burns et al. (US 6275496 B1)** in view of **Ben-Shaul et al. (US 6976090 B2)** further in view of **Hill (US 7020658 B1)**.

Regarding claim 1, Burns discloses:

- **means for transmitting a request for page information**, at least by (col. 8 lines 5-6, “requests in the form of universal resource locators (URLs)”);
- **means for receiving said page information, which includes identification information corresponding to content data, from an external apparatus in response to the request, and for receiving said content data, the identification information identifying a vendor**, at least by (col. 8 lines 10-23, “A URL describes everything about a particular resource that a Web browser needs to know to request and render it. The URL describes the protocol a browser should use to retrieve the resource, the name of the computer it is on, and the path and file name of the resource. The following is an example of a URL: http://www.microsoft.com/upgrades The "http://" portion of the URL describes the protocol. The letters "http" stand for HyperText Transfer Protocol, the set of rules that

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a browser will follow to request a document and the remote server will follow to supply the document. The "www.microsoft.com" portion of the URL is the name of the remote host computer which maintains the document. The last portion "/upgrades" is the path and file name of the document on the remote host computer.", the www.microsoft.com portion identifies the vendor.)

- **storing means for storing said content data received by said means for receiving, based on said identification information independently of said page information**, at least by (col. 8 lines 25-26, "determine if a proxy copy of the target resource referenced by the URL is stored locally", by disclosing determining if the target resource is stored locally, discloses the storing means for storing the content data, and since it is just reference by the URL it shows that it is stored independently of page information);
- **means for outputting the said content data along with said page information**, at least by (col. 8 lines 34-35, "the local service provider 110 uses the URL request to locate the target resource from a content provider and to request delivery of the target resource over the Internet");
- **control means for registering in said storing means, in response to the identification information**, at least by (col. 9 lines 55-64, "local service provider 110 sends a request to the CNN Web site seeking to download the CNN Web page at 6:00 AM. The CNN Web page is downloaded over the Internet and stored in the cache memory 124. If the CNN Web page contains links to any audio or video clips of recent news, these data files are also downloaded and stored in the CMS 126. The links within the cached Web page are modified to reference the audio and video files stored locally in the CMS 126");

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- But **Burns** fails to specifically disclose: **(a) said content data in an uncompressed format upon a reception of said content in a compress format from said external apparatus**
- **for detecting whether said storing means is storing content data independently of said page information for controlling said means for outputting to output said content data from said storing means without an inquiry to the external apparatus when said control means detects that storing said means is storing said content data**, at least by (col. 8 lines 23-33, “request handler 111 receives a request, the local service provider 110 first looks to its own cache memory 124 to determine if a proxy copy of the target resource referenced by the URL is stored locally... If a proxy copy is stored in the cache memory 124, the target resource is served locally from the cache memory 124)
- **for controlling said means for receiving to receive by said content data from the external apparatus when said content data is not stored in said storing means**, at least by (col. 8 lines 33-36, “If there is no proxy copy, the local service provider 110 uses the URL request to locate the target resource from a content provider and to request delivery of the target resource over the Internet”);
- **and the identification information identifying a vendor**, at least by (col. 8 lines 19-21, “of a URL:... The "www.microsoft.com" portion of the URL is the name of the remote host computer which maintains the document”);
- But **Burns** fails to specifically disclose: **(b) and for removing all files from said storing means except for files of the vendor**

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However, **Ben-Shaul** teaches the above limitation (a) at least by (col. 65 lines 3-11, “Uncompression is performed on a previously compressed web object. It involves 6 stages: (1) Initially a check is made to determine if the document is in the cache. The cache entry of the uncompressed document is according to the original URL. (2) If there is a cache miss, then URL translation is applied to the compressed document. (3) The compressed document is fetched, and (4) uncompressed. (5) A translation is made to recover the uncompressed document's URL. (6) The uncompressed document is stored in the cache”, based on original URL the compressed object is uncompressed and stored in the cache).

Also, **Hill** teaches the above limitation (b) at least by (col. 11 lines 30-63, “utility which is used to automatically manage the data files by automatically deleting data files associated with the search strings stored in the search string database 1620. The utility is activated by an event trigger in step 600... When the trigger event occurs, the computer retrieves the next search string from the search string database, beginning with the first string, as illustrated in step 602. Referring to FIG. 11A, the first search string selected from the search string database 1620 in step 604 is the text string "abouttmcs.com". In step 604, the cache database 1670 is searched and all data files with an address or name associated with the search string "abouttmcs.com" are identified. In step 606, all the data files associated with the search string "abouttmcs.com" are deleted, as are the corresponding database entries... Upon completion of the utility of FIG. 6A, the user's cache is emptied of all data files that are of no interest to the user”, the utility automatically searches of the cache and deletes all data files according to a provided text string that includes a vendor “abouttmcs.com” in doing so all files can be searched and deleted to according to a vendor leaving only files of specific vendors that are not on the list to be deleted.

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Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Ben-Shaul** and **Hill** into the teaching of **Burns** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of allowing the ability to cache and uncompress bandwidth intensive content of a specific websites locally for quicker retrieval and relieves the load at the server.

As per claim 2, claim 14 is incorporated and further Burns discloses:

- **wherein said controller is configured to store in said memory the content data**, at least by (col. 8 lines 23-33, “proxy copy of the target resource referenced by the URL is stored locally... If a proxy copy is stored in the cache memory 124, the target resource is served locally from the cache memory 124”)

As per claim 3, claim 2 is incorporated and further Burns discloses:

- **wherein the content data is an image data and the page information define a portal site**, at least by (col. 5 line 10 - 20, “the local service provider stores the content in the cache memory. For instance, the content might be a Web page from a frequently visited Web site. Web pages are typically designed as hypermedia documents to provide rich multimedia presentations which blend text, images, sound, and video. If the Web page references or includes continuous data files, such as audio or video files, these files are stored in a continuous media server. The target specifications embedded in the Web page to reference the continuous data files are modified to reference the local copy of the continuous data files, as opposed to the original location of the files at the Web site”, text, images, stored in cache memory discloses content data as image data and the reference to the Web Page/site is the page information defining a portal site.

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As per claim 4, claim 2 is incorporated and further Burns disclose:

- **wherein the content data is sound data and the page information defines a portal site, wherein the content data is an image data and the page information define a portal site**, at least by (col. 5 line 10 - 20, “the local service provider stores the content in the cache memory. For instance, the content might be a Web page from a frequently visited Web site. Web pages are typically designed as hypermedia documents to provide rich multimedia presentations which blend text, images, sound, and video. If the Web page references or includes continuous data files, such as audio or video files, these files are stored in a continuous media server. The target specifications embedded in the Web page to reference the continuous data files are modified to reference the local copy of the continuous data files, as opposed to the original location of the files at the Web site”, audio files stored in continuous media server discloses content data as sound data and the reference to the Web Page/site is the page information defining a portal site.

As per claim 5, claim 14 is incorporated and further Burns disclose:

- **wherein said controller is configured to count a number of times the content data had been reproduced, and said controller is configured to store in said memory the content data, which has been accessed more than a certain number of times**, at least by (col. 8 lines 54-56, col. 9 lines 1-3, “the pattern recognizer 116 determines which – URLs, and hence which Internet resources, are being requested most often and least often, and the time of day when the most requests are received... pattern recognizer 116 and scheduler 118 cooperate to enable intelligent pre-caching of frequently requested content.” The determination of most requests based on frequency of the resource being

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requested incorporates the counting the number time the content data is reproduced and threshold to determine the most requests.

As per claim 8, canceled.

As per claim 9, claim 14 is incorporated and further Burns and Hill fails to specifically disclose:

- **wherein, when said controller receives the content data in the compressed format with a predetermined attribute, said controller registers in said means memory said content data in uncompressed format.**

However, **Ben-Shaul** teaches the above limitation at least by (col. 65 lines 3-11, “Uncompression is performed on a previously compressed web object. It involves 6 stages: (1) Initially a check is made to determine if the document is in the cache. The cache entry of the uncompressed document is according to the original URL. (2) If there is a cache miss, then URL translation is applied to the compressed document. (3) The compressed document is fetched, and (4) uncompressed. (5) A translation is made to recover the uncompressed document's URL. (6) The uncompressed document is stored in the cache”, based on original URL the compressed object is uncompressed and stored in the cache).

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Ben-Shaul** into the teaching of **Burns and Hill** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of allowing the ability to cache and uncompress bandwidth intensive content of a specific websites locally for quicker retrieval and relieves the load at the server.

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As per claim 10, claim 14 is incorporated and further Burns and Hill fails to specifically disclose:

- **wherein said controller reproduces the content data, and said controller is further configured to convert the content data into a compression format corresponding to characteristics of said controller, and to then register said content data in said memory.**

However **Ben-Shaul** teaches the above limitation at least by (col. 42 lines 47-52, “Compression compresses a single resource using a built-in compression method. The front edge tool 86 provides primitives for checking if resource compression is worthwhile, considering size and CPU load. These primitives enable profile editors to define conditions, as part of the service attributes, that specify when packing should be done” and col. 63 lines 16-18, “ for each file to be compressed the packing services facility 58 requires a translation rule from the original URL to the compressed file”).

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Ben-Shaul** into the teaching of **Burns and Hill** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of allowing the ability to cache and compress content of a specific websites when determined appropriate to improve transfer rates.

As per claim 11, claim 14 is incorporated and further Burns discloses:

- **wherein the page information includes said a Uniform Resource Locator (URL), at least by (col. 8 lines 10-23, “A URL describes everything about a particular resource that a Web browser needs to know to request and render it. The URL describes the protocol a**

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browser should use to retrieve the resource, the name of the computer it is on, and the path and file name of the resource. The following is an example of a URL:

http://www.microsoft.com/upgrades The "http://" portion of the URL describes the protocol. The letters "http" stand for HyperText Transfer Protocol, the set of rules that a browser will follow to request a document and the remote server will follow to supply the document. The "www.microsoft.com" portion of the URL is the name of the remote host computer which maintains the document. The last portion "/upgrades" is the path and file name of the document on the remote host computer.”)

- **and said controller is configured to access, when the content data is not stored in said memory, said URL to acquire said content data from said external apparatus,** at least by (col. 8 lines 33-36, “If there is no proxy copy, the local service provider 110 uses the URL request to locate the target resource from a content provider and to request delivery of the target resource over the Internet”).

Claim 12 is an information reproduction method corresponding to the apparatus claim 1, and is rejected under the same reason set forth in connection to rejection of claim 1 above.

Claim 13 is a program product claim corresponding to the apparatus claim 1, and is rejected under the same reason set forth in connection to rejection of claim 1 above. **Burns** discloses the program product stored upon a computer readable medium to be processed, at least by (col. 9 lines 5-7, “The local service provider is programmed to perform the computer-implemented steps”).

Claim 14 is an information reproduction apparatus corresponding to the apparatus claim 1, and is rejected under the same reason set forth in connection to rejection of claim 1 above. **Burns**

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discloses the apparatus as (Fig. 2) which is used to provide the means that has been disclosed in claim 1.

As per claim 17, cancelled.

As per claim 18, cancelled.

As per claim 19, claim 14 is incorporated and further Burns disclose:

- **wherein, when the number of files caches in the memory exceeds a predetermined threshold, the controller removes all files form the memory**, at least by (col. 11 lines 15-19, “Deletion policies are a function of the content itself (e.g., its TTL tags), the subscriber patterns (e.g., how frequently the content is requested), the cost to request newer updated content, and the constraints imposed by capacity limitations of the cache memory.” Memory constraints incorporates the memory exceeding a predetermined threshold).
- But **Burns** and **Ben-Shaul** does not specifically disclose: **except for the files of the vendor.**

However **Hill** discloses the above limitations at least by (col. 12 lines 57-col. 13 lines 2, “data files associated with a user's Favorite sites being deleted, resulting in longer access times to the site as many of the data files associated with the Favorite site will need to be downloaded. As the user will most often visit sites in the favorites list, this is undesirable. These inadvertent deletions are prevented by including search strings based on the user's Favorite list, which are generated in accordance with the flow diagram of FIG. 7A, which describes a utility to automatically store search strings based on a user's Favorite list. These automated search strings are stored in the Favorite database 1630. Files associated with the search strings based on the

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user's Favorite list are retained”, by placing items in the Favorite list is the indicator that the files are not to be deleted regardless of any deletion triggers.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Hill** into the teaching of **Burns and Ben-Shaul** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of allowing the ability to define a preference in what the user wants cached which allows more freedom and customization in how the memory and resources should be used.

8. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Burns, Ben-Shaul and Hill** further in view of **Tso et al. (US 6681298 B1)**.

As per claim 6, claim 14 is incorporated and further **Burns, Ben-Shaul and Hill** fails to specifically disclose:

- wherein said controller is configured to count the number of time the content has been reproduced, and said controller if configured to remove from said storage means memory the content data, based on the number of times,

However, **Tso** teaches the above limitations at least by (Fig. 7E illustrates a table contains values that are substituted for the "TimesUsed" column values when calculating the removal factors), by using “TimesUsed” and its equivalent values in table 7E to determine the removal factor **Craig** clearly shows that the number of times used is factored into how the content is removed.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Burns, Ben-Shaul and Hill** because one of the ordinary skill in the art would have been motivated to use such a

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modification for the purpose of allowing the ability to define a preference in what the user wants cached which allows more freedom and customization in how the memory and resources should be used.

As per claim 7, claim 6 is incorporated and further Burns, Ben-Shaul and Tso fails to specifically disclose:

- **wherein said controller is configured to register in said memory an indicator showing an importance of said content data, and to prevent said content data from being removed from said memory based on said indicator of said content data regardless of a number of times access of said content data.**

However **Hill** discloses the above limitations at least by (col. 12 lines 57-col. 13 lines 2, “data files associated with a user's Favorite sites being deleted, resulting in longer access times to the site as many of the data files associated with the Favorite site will need to be downloaded. As the user will most often visit sites in the favorites list, this is undesirable. These inadvertent deletions are prevented by including search strings based on the user's Favorite list, which are generated in accordance with the flow diagram of FIG. 7A, which describes a utility to automatically store search strings based on a user's Favorite list. These automated search strings are stored in the Favorite database 1630. Files associated with the search strings based on the user's Favorite list are retained”, by placing items in the Favorite list is the indicator that the files are not to be deleted regardless of any deletion triggers.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Hill** into the teaching of **Burns, Ben-Shaul and Tso** because one of the ordinary skill in the art would have been motivated to use such a

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modification for the purpose of allowing the ability to define a preference in what the user wants cached which allows more freedom and customization in how the memory and resources should be used.

9. Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Burns, Ben-Shaul and Hill** further in view of **Vange et al. (US 20020002625 A1)**.

As per claim 15, claim 16 is incorporated and Burns, Ben-Shaul and Hill fails to specifically disclose:

- **the interface includes a display of predetermined dimensions, and the second size is based on the predetermined dimensions of the display.**

However **Vange** teaches the above limitation, at least by (paragraph [0072]) “substantively reformatting an entire document by changing sizes and layout so that it performs its desired function when presented to a requesting client 205.”

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Vange** into the teaching of **Burns, Ben-Shaul and Hill** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose allowing clients to retrieve data from data sources that do not necessarily support the same formats as the clients which improves the accessibility between less-conventional clients and the internet.

As per claim 16, claim 14 is incorporated and further Burns, Ben-Shaul and Hill fails to specifically disclose:

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- **the information processing apparatus according to claim 14, wherein the controller is configured to translate the content data from a first format and first size to a second format and a second size based on a characteristic of the interface.**

However **Vange** teaches the above limitation, at least by (paragraph [0072]) “substantively reformatting an entire document by changing sizes and layout so that it performs its desired function when presented to a requesting client 205.”

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Vange** into the teaching of **Burns, Ben-Shaul** and **Hill** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose allowing clients to retrieve data from data sources that do not necessarily support the same formats as the clients which improves the accessibility between less-conventional clients and the internet

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DENNIS TRUONG whose telephone number is (571)270-3157.

The examiner can normally be reached on MON - FRI: 7:30 - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mahmoudi Tony can be reached on (571) 272-4078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dennis Truong/
Examiner, Art Unit 2169